

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, APS PUSHBUTTONS AND SIGNS AT THE INTERSECTION OF MD 223 (WOODYARD ROAD) AND MD 5 IN PRINCE GEORGES COUNTY. MD 223 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE FULL-TRAFFIC-ACTUATED MODE WITH PROTECTED LEFT-TURN PHASES FOR EAST AND WEST BOUND MD 223. NO PHASE CHANGES ARE PROPOSED AS PART OF THIS PROJECT.

CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED. A 2-WIRE APS CONTROL UNIT WILL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY SHA.

CONTACT PERSONS FOR DISTRICT # 3 ARE AS FOLLOWS:

MR. BRIAN YOUNG
ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: (301) 513-7358

MR. AUGIE REBISH
UTILITY ENGINEER
PHONE: (301) 513-7350

MR. WAYNE A. MOWDY
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: (301) 513-7304

CONTACT PERSONS FOR DOTS ARE AS FOLLOWS:

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
DIVISION
PHONE: (410) 787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF
TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS
410-787-7676

THE POWER COMPANY IS:

PEPCO
ROCKVILLE SERVICE CENTER
201 WEST GUDE DRIVE
ROCKVILLE, MD 20850
301-670-8700

CONSTRUCTION DETAILS (CONT.)

- G. USE EXISTING CABINET. 2-WIRE APS CONTROL UNIT TO BE FURNISHED BY CONTRACTOR AND INSTALLED BY SHA.
- H. INSTALL GROUND MOUNTED SIGN ON 2-4"X4" WOOD SIGN SUPPORTS. INSTALL SIGN APPROXIMATELY 150' IN ADVANCE OF SPUR D PEDESTRIAN CROSSING IN AREA ADJACENT TO MD 5 CANTILEVER SIGN STRUCTURE.
- I. INSTALL SIGN ON 2-4"X4" WOOD SIGN SUPPORTS.
- J. INSTALL 12 INCH WHITE HEAT APPLIED PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES IN EXISTING LOCATION.
- K. REMOVE EXISTING PEDESTRIAN SIGNAL HEAD. PLUG UNUSED HOLES.
- L. ADJUST EXISTING HANDHOLE TO FINAL SIDEWALK GRADE.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
9570	SHEET ALUMINUM SIGNS - GROUND MOUNT CONSISTING OF:	SF	68

6 - W11-2 (36"X36") FY
2 - M6-2R (21"X15") FY
2 - M6-2L (21"X15") FY
2- W16-9p (30"X12") FY

WIRING KEY

A,B,C,D	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
E,F,G,H	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
Z	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
PS	EXISTING OVERHEAD POWER SERVICE BY PEPCO
✱	PROPOSED GROUND ROD

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1002	MAINTENANCE OF TRAFFIC	LS	1
5005	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	LF	410
8001	AUDIBLE / TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS	EA	4
8002	BREAKAWAY PEDESTAL POLE - ANY SIZE	EA	4
8003	FURNISH AND INSTALL 2 WIRE CONTROL UNIT	EA	1
8004	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS	EA	4
8005	PEDESTRIAN EDUCATION SIGN	EA	4
8007	REMOVE AND DISPOSE PER ASSIGNMENT	EA	1
8010	WOOD SIGN SUPPORTS 4 INCH X 4 INCH	LF	210
8011	ADJUST EXISTING HANDHOLE	EA	3
8012	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	60
8013	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	50
8015	INSTALL GROUND MOUNTED SIGN	SF	68
8020	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	650
8021	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	670

* REMOVE AND DISPOSE ITEM IS FOR ALL SIGNALS WHICH ARE PART OF THIS TASK. MOT QUANTITY IS COVERED AS PART OF THE SIDEWALK PLANS.

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND RETURNED TO SHA.

ALL MATERIALS AND EQUIPMENT REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPOERTY OF THE CONTRACTOR.

PHASING CHART

NO PHASE CHANGE

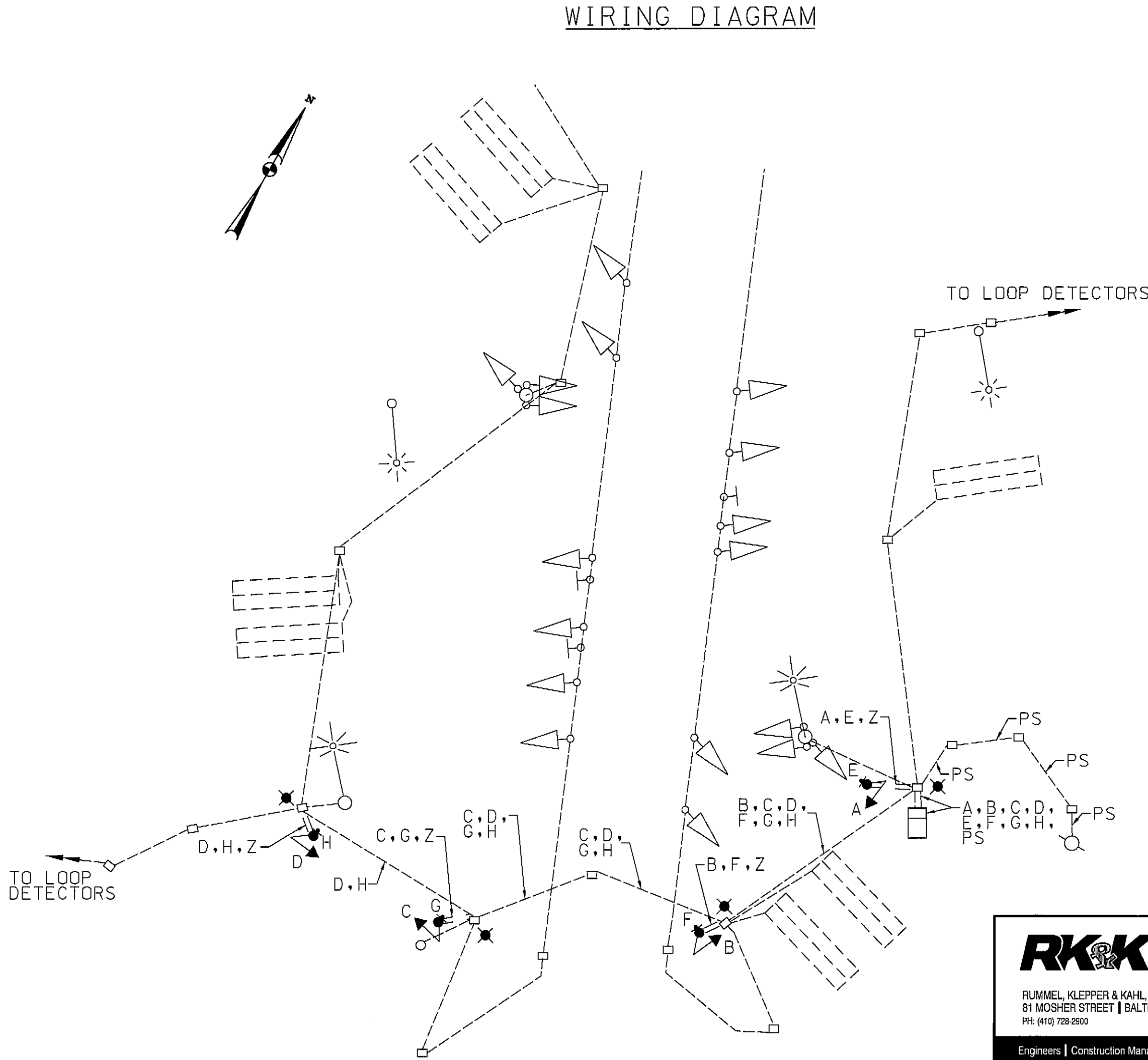
SPECIAL NOTE

APS UNIT WILL FUNCTION AS FOLLOWS:

- FOR ALL RAMPS
- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS RAMP AT WOODYARD".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
3. ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
4. UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
5. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
6. ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER AT 410-787-7652 TO COORDINATE.
7. LOCATION OF ACCESSIBLE PEDESTRIAN PUSHBUTTONS MUST MEET THE LOCATION REQUIREMENTS OF THE MUTCD, SECTION 4E-09 AND FIGURE 4E-2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNAL: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL THE CONFLICT HAS BEEN RESOLVED. IF NEEDED, A DESIGN WAIVER SHALL BE OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
8. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
9. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
10. PUSHBUTTON ARROWS AND SIGNS ARE TO BE ORIENTED PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.



SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 223 (WOODYARD ROAD) AT
MD 5 (BRANCH AVE)
BALLARD, MARYLAND

REVISIONS	GENERAL INFORMATION SHEET		
	SCALE <u>NONE</u>	DATE <u>JUNE 2009</u>	CONTRACT NO. <u>AX7035168</u>
	DESIGNED BY <u>SK</u>	COUNTY <u>PRINCE GEORGE'S</u>	
	DRAWN BY <u>SK</u>	LOGMILE <u>16022307.45 & 16000507.85</u>	
	CHECKED BY <u>DAE</u>	TIMS NO. <u>1509</u>	
	FAP NO. _____	TOD NO. _____	
	TS NO. <u>1782E-G1</u>	DRAWING <u>SG - 02</u> OF <u>02</u>	SHEET NO. <u>2</u> OF <u>2</u>